

NOTES:

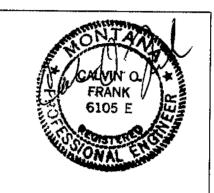
SPECIFICATIONS: MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS, 2010 EDITION, AND ANY AMENDMENTS THERETO, AND THE SPECIAL PROVISIONS GOVERN UNLESS OTHERWISE NOTED.

LIVE LOAD: STANDARD HS 20-44 LOADING.

CAST IN PLACE CONCRETE: UNLESS OTHERWISE APPROVED OR SPECIFIED, USE 3000 PSI CONCRETE FOR ALL SUBSTRUCTURE CONCRETE.

UTILITIES: CALL 1-800-424-5555 FOR UTILITY LOCATES AT LEAST TWO DAYS PRIOR TO STARTING ANY CONSTRUCTION ACTIVITY THAT COULD DISTURB A UTILITY.

DIMENSIONS: ALL DIMENSIONS SHOWN ON THE GENERAL LAYOUT ARE IN FEET AND INCHES. STATIONS AND ELEVATIONS ARE EXPRESSED IN FEET.



Calvin O. Frank, PE **Consulting Engineer** Buffalo, MT 59418

DATE:
June 3, 2019
DATE:

REVISED BY: DATE: APPROVED BY: DATE: APPROVED BY: DATE APPROVED BY: DATE:

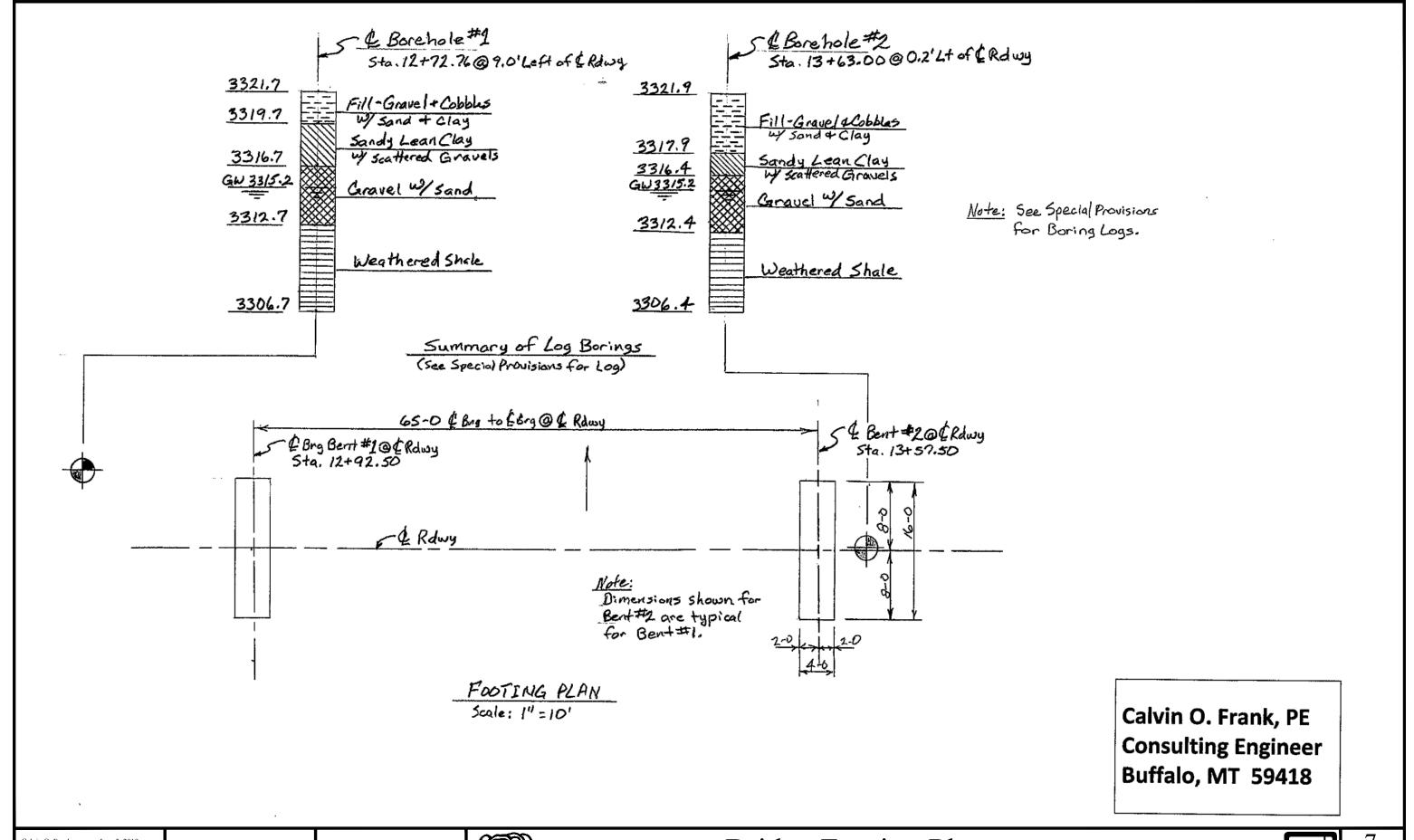


Montana Fish. Bridge General Layout
Wildlife & Paris

Buffalo Mirage Fishing Access Site - Bridge Replacement



of



Montana Fish. Bridge Footing Plan
Wildlife & Parks

Buffalo Mirage Fishing Access Site - Bridge Replacement

REVISED BY:

APPROVED BY:

DATE:

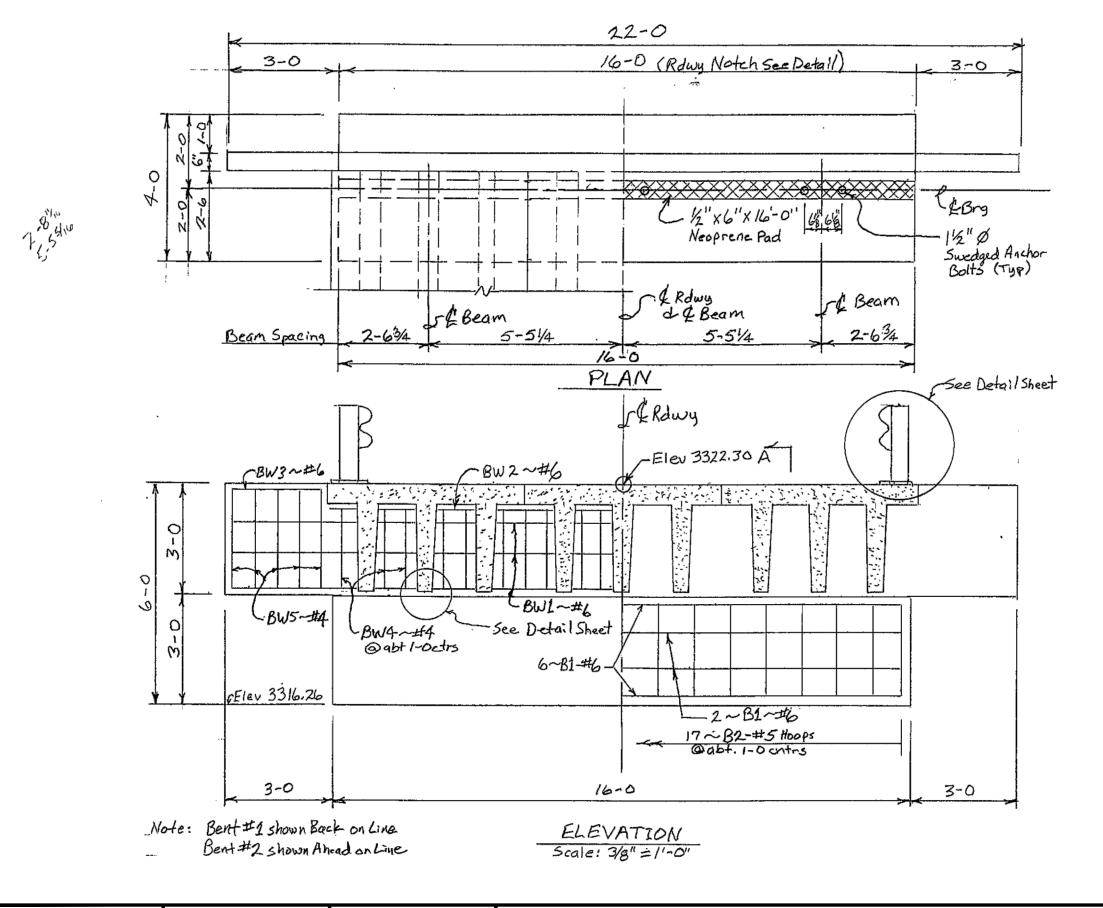
APPROVED BY:

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SHEET of



BILL OF REINFORCING STEEL

(FOR ONE BENT ONLY)

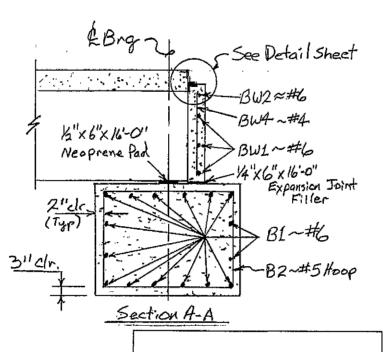
(All Dimensions are out to out)

Longth A B C A

Length Type Str

Type 1

Mark	Size	No.	Туре	Length	Α	В	С
B1	#6	16	Str	15-8			
B2	#5	17	T1	13-3	2-7	3-8	4 ½"
BW1	#6	3	Str	21-8			
BW2	#6	1	Str	16-0			
BW3	#6	2	Str	2-6			
BW4	#4	17	Str	1-6			
BW5	#4	10	Str	2-7			



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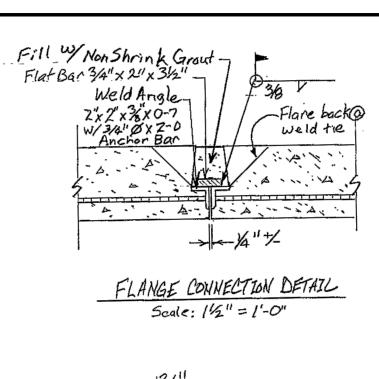
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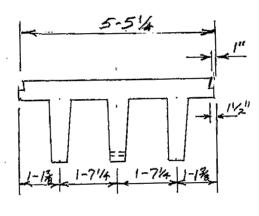


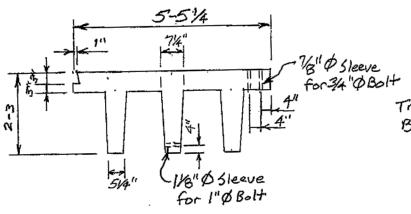
Montana Fish. Bridge End Bent
Wildlife & Paris

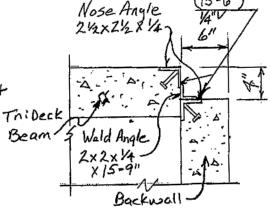
Buffalo Mirage Fishing Access Site - Bridge Replacement









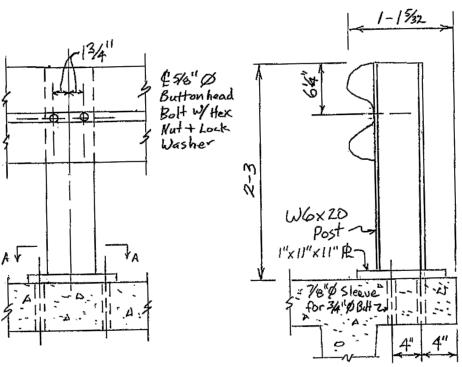


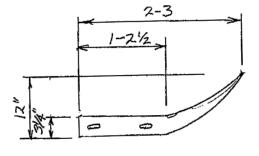
INTERIOR BEAM SECTION Scale: 36"=1-0"

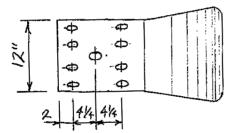
EXTERIOR BEAM SECTION Scale: 3/9"=1-0"

ROADWAY NOTCH DETAIL Scale: 1"=1'-0"

Note: Include backwall nose angle & Weld Angle in unit price bid for Concrete.

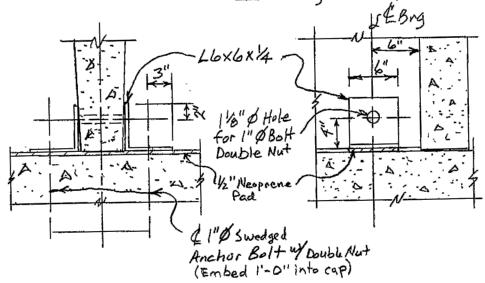






FLARE GUARDRATL TERMINAL (OR EQUIVALENT)





BEAM TO CAP ATTACHMENT DETAIL Scale; 1"=1'-0"

GUARDRAIL POST DETAIL Scale: 1"=1'-0" **NOTES:**

PRESTRESSING STEEL: USE 0.50" DIA OR 0.60" DIA 7 STRAND PRESTRESSING STEEL

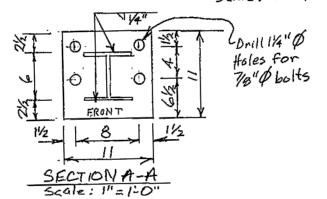
BEAM LENGTH. INCREASE THE OVERALL LENGTH OF THE BEAM 0.0075"/FT OF LENGTH TO ALLOW FOR ELASTIC SHORTENING, SHRINKAGE, AND CREEP.

REVISED BY:

APPROVED BY:

HARDWARE: OBTAIN APPROVAL OF THE **ENGINEER FOR ALL HARDWARE** INCORPORATED IN THE BEAM PRIOR TO FABRICATION. INCLUDE ALL COSTS TO **FURNISH AND INSTALL REQUIRED** HARDWARE IN THE UNIT PRICE BID FOR PRESTRESSED TRI-DECK BEAMS.

USE STRUCTURAL STEEL MEETING THE REQUIREMENTS OF AASHTO M270 GRADE 36 EMBEDDED ANGLES AND SLEEVES. USE HEADED SHEAR STUDS MEETING THE REQUIREMENTS OF AASHTO M169 GRADES 1010 THROUGH 1020.



Calvin O. Frank, PE **Consulting Engineer** Buffalo, MT 59418

Calvin O. Frank	June 3, 2019	
DRAWN BY:	DATE:	
Calvin O. Frank	June 3, 2019	
CHECKED BY:	DATE:	

DATE APPROVED BY DATE APPROVED BY: DATE:



Montana Fish. Wildlife & Parks

Bridge Miscellaneous Details
Buffalo Mirage Fishing Access Site - Bridge Replacement



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